

GGTCAGAGAC ATCAGAAAT AACGCCGGA CATTAGTCA GCGAGCTTC ACAGCAGATGG	4200
CATCCTGGTC ATCCAGGCGA TGTGAAATGTA TCGGCCCCT GACGGCGTGC CGGAGAAAGT	4260
TGTGACACGC CGCTTACAG GCTTCGACGC CGCTTCGTTTACCATCGAC ACCACCACCC	4320
TGGCACCCAG TTGATCGCG CGAGATTAA TCGCGCGAC AATTCGCGAC GCGCGGTGCA	4380
GGGCCAGACT GGAGGCTGGCA AGGCCAATCA GCGACGACTG TTGCGCCGCC AGTTGTTGTC	4440
CCACGGGGTT GGGAAATGAA TTCAGCTCG CCATCGCCGC TTCCACTTT TCCCGCGTTT	4500
TOGCAGAAAC GTGGCTGGCC TGGTTCRCCA CGCGGGAAAC GGTCTGRTAA GAGACACCGG	4560
CATACTCTGC GACATCGTAT AACGTTACTG GTTTCACATT CACCAACCTT AATTCGACTCT	4620
CTTCGGGGCG CTATCATGCC ATACCGCGAA AGGTTTTCG CGCATTCGATG GTGTCGCGAA	4680
TCTCGACGCT CTCCCTTATG CGACTCTGC ATTAGGAAG AGGCCAGTAG TAGGTTGAGG	4740
CCGTTTGAAGA CGCGCGCGCC AACGAAATGGT GCATGCAAGG AGATGGCGCC CAACAGTCCC	4800
CGGGCCAAAGG GGCGTGGCAC CATAACCCACG CGGAAACAAG CGCTCATGAG CCCGAAGTGG	4860
CGAGCCCGAT CTTCCCCATC GGTGATGTCG CGGATATAGG CGCAGCGAAC CGCACCTGTC	4920
GGCGCGGTGA TGCGGGCGAC GATGCGTCCG CGCTGAGAGGA TCGAGAGTC GATCCCGCGA	4980
AATTAATACG ACTCACTATA GGGGAATTGT GAGCGGGATAA CAATTCCTCT CTAGAAATAA	5040
TTTTGTTAA CTTTAAGAAG GAGATATACA TATGGGCCAT CATCATCATC ATCAGCTGAT	5100
CGACATCATC GGGACCAGCC CCACATCTG GAAACGGCG CGGGCGGGAGG CGTCCAGCG	5160
GGCGCGGGAT AGCGTGGRTG ACATCCCGT CGCTCGGGTC ATTGAGCGGG ACATGGCCCT	5220
GGACAGGCGC GGCRAGATCA CCTACCGCTT CAACTCGAA GTGTCGTTCA AGATGAGGCC	5280
GGCGCAACCG AGGGGCTCGA AACCCACCG CGGTTCGGCT GAAACGGCG CGGGCGCGCG	5340
TACGTTGGCG ACTACCCCGG CGTCGTCGCC GGTGAGCTTG CGGGAGCGG GTAGCAGCGCT	5400
GCTCTACCGG CTGTTCAACC TGTGGGGTCC CGCCTTTCAC GAGAGGTATC CGAACGTCAC	5460
GATCACCGCT CAGGGCACCG CGTCGTCGCC CGGGATCGCG CAGGGCGCG CGGGGACGGT	5520
CAACATGGG CGCTCTGCG CGCTATCTGTC GGAAGGTGAT ATGGCGCGC ACAAGGGGCT	5580

GATGAACATC	GGGCTAGCCA	TCTCCCGCTCA	GCAGGTCAC	TACAACTTC	CCGGAACTGAG	5640
CGAGCCTCTC	AAGCTGAACG	GAAAAGTCCT	GGGGGCCATG	TACCAAGCCA	CCATCAAAC	5700
CTGGGACGAC	CCGCAGATCG	CTGGCGCTCA	CCCCGGCGTG	AACCTGCCCG	GCACCCCGGT	5760
AATTCGGCTG	CACCGCTCGG	ACGGGTCGG	TCACACCTTC	TGTTTACCCC	AGTACCTGTC	5820
CAAGCAGAT	CCCGAGGCT	GGGGCAAGTC	GGCGGGCTTC	GGCACCAACG	TGACTCTCC	5880
GGCGGTGCCG	GGTGGCGCTGG	GTGAGGAGCG	CAACGGCGGC	ATGGTGACCG	GTTGGCGCGA	5940
GACACCGGGC	TGCGTGGCT	ATATGGCAT	CAGCTCTTC	GACCAGGCCA	GTCAAAAGGGG	6000
ACTCGGGCGAG	GGCCAACTAG	GCAATAGTC	TGGCAATTTC	TGTTTGGCCG	ACGGCGAAAG	6060
CTTTCAGGCC	GGGGCGGCTG	GCTTCGCTAC	GAAAACCCG	GGGAAACCGG	CGATTTGAT	6120
GATGACAGGG	CCCGCCCGGG	ACGGCTACCC	GATCTCAC	TACGAGTACG	CCATCGTC	6180
CAACCGGCAA	AAGGACCGCG	CCACCGCGCA	GACCTTGAG	GCATTTCTGC	ACTGGGGGAT	6240
CACCGGACGGC	AACAAAGGCT	GGTTCCTCGA	CCAGGTTAT	TTCCAGGCCG	TGCCGGCCCG	6300
GTTGGTGAAG	TTGCTGACG	GGTTGATGCC	GACGATTTC	AGCGCTGAAGA	TGAAGACCGA	6360
TGCCGCTACC	CTCGCGCGGG	AGGCAGGTA	TTTCGAGGGG	ATCTCCGGCG	ACCTGAAAC	6420
CCAGATCGAC	CAGGTGGAGT	GGACGCGAGG	TTCGTTGAG	GGCCAGTGGC	GCAGGCGCGC	6480
GGGGAGGGCC	GGCCAGGGCG	GGGTGGTGGC	CTTCCAGAGA	GCACCCAAATA	ACGAGAAAGA	6540
GGAACTCGAC	GAGATCTCGA	CGAAATATTCG	TCAGGCCCGC	GTCCAATACT	CGAGGGCCGA	6600
CGAGGGAGCG	CAGCAGCGGC	TGTCCCTCGCA	ATGGGGCTTT	GTGCCCCCAA	GGGCGCGCTC	6660
GGCGCCGCTG	ACCGCTCGAG	GGCCACCGCG	ACCGGGCGACA	CTGTTGCC	CCCCACCAAC	6720
GGCGCCGCGG	AAACACCGGA	ATGCCCCGGC	GGGGATTCGC	AACGCGAGCAC	CTGGCGCGGC	6780
CGACCGGAA	GCACCGCGGC	CACCTGTCAT	TGCCCCAAAC	GCACCCCAAC	CTGTCGGAT	6840
CGACACCCCG	GGTGGAGGGAT	TCAGCTTCGC	GTGCGCTGCT	GGCTGGGTGG	AGTCTGACGC	6900
CGGCCCCATTC	GAATACGGTT	CAGCACTCTT	CAGCAAAACC	ACCGGGGAGC	CGCCATTTCC	6960
CGGACAGCGCG	CGCGCGGTGG	CCATGTCAC	CGTATCGTA	CTGGCGCGC	TAGACCAAA	7020

GCTTTACGCC	AGCGCGAAGG	CCACCGACTC	CAAGGCCGCG	SCCCGGTTGG	GCTCGGACAT	7089
GGGTGAGTTC	TATATGCCCT	ACCCGGGCRC	CCGGATCAAC	CAGGAACCGC	TCTCGCTTGA	7140
CGCCACAGGG	GIGTCTGGAA	GGCGCTCGTA	TTACGAAGTC	AAAGTTCAAGG	ATCCCGAGTAA	7200
GGCGACAGGC	CAGATCTGGA	CGGGCGTAAT	CGGCTGCC	GCAGCGAACG	CACCGGACGC	7260
CGGGCCCCCT	CAGCGCTGGT	TTGTGGTATG	GCTCGGGACC	GCGAACAAACC	CGGTGGACAA	7320
GGGCGCGGCC	AAGGCCTGGA	CGGAATCGAT	CGGGCTTTC	GTCGCGCCCG	CGCCCGGCC	7380
GGCACCGCT	CCTGCAGAGC	CGGCTCCCGC	GCAGGGCGCG	GGGGGGGAAG	TGCTCTAC	7440
CCCGACGACCA	CCGACACCCGC	ACCGGACCTT	ACCGGCTGGA	GAATTCTGCA	GATATCCATC	7500
ACACTGGCGG	CGGCTCGAGC	ACCACCAACCA	CCACCACTGA	GATCGGGCTG	CTAACAAAGC	7560
CCGAAAGGAA	GCTGAATTGG	CTGCTGCCAC	CGCTGAGCAA	TRACTAGCAT	AACCCCTTGG	7620
GGCCTCTAAA	CGGGTCTTGA	GGGGTTTTTT	GCTGAAAGGA	GGAACTATAT	CGGGAT	7676

Fig. 5F

Met Gly His His His His His His Val Ile Asp Ile Ile Gly Thr Ser  
 1 5 10 15

Pro Thr Ser Trp Glu Gln Ala Ala Ala Glu Ala Val Gln Arg Ala Arg  
 20 25 30

Asp Ser Val Asp Asp Ile Arg Val Ala Arg Val Ile Glu Gln Asp Met  
 35 40 45

Ala Val Asp Ser Ala Gly Lys Ile Thr Tyr Arg Ile Lys Leu Glu Val  
 50 55 60

Ser Phe Lys Met Arg Pro Ala Gln Pro Arg Gly Ser Lys Pro Pro Ser  
 65 70 75 80

Gly Ser Pro Glu Thr Gly Ala Gly Ala Gly Thr Val Ala Thr Thr Pro  
 85 90 95

Ala Ser Ser Pro Val Thr Leu Ala Glu Thr Gly Ser Thr Leu Leu Tyr  
 100 105 110

Pro Leu Phe Asn Leu Trp Gly Pro Ala Phe His Glu Arg Tyr Pro Asn  
 115 120 125

Val Thr Ile Thr Ala Gln Gly Thr Gly Ser Gly Ala Ile Ala Gln  
 130 135 140

Ala Ala Ala Gly Thr Val Asn Ile Gly Ala Ser Asp Ala Tyr Leu Ser  
 145 150 155 160

Glu Gly Asp Met Ala Ala His Lys Gly Leu Met Asn Ile Ala Leu Ala  
 165 170 175

Ile Ser Ala Gln Gln Val Asn Tyr Asn Leu Pro Gly Val Ser Gln His  
 180 185 190

Leu Lys Leu Asn Gly Lys Val Leu Ala Ala Met Tyr Gln Gly Thr Ile  
 195 200 205

Lys Thr Trp Asp Asp Pro Gln Ile Ala Ala Leu Asn Pro Gly Val Asn  
 210 215 220

Leu Pro Gly Thr Ala Val Val Pro Leu His Arg Ser Asp Gly Ser Gly  
 225 230 235 240  
 Asp Thr Phe Ieu Phe Thr Gln Tyr Leu Ser Lys Gln Asp Pro Glu Gly  
 245 250 255  
 Trp Gly Lys Ser Pro Gly Phe Gly Thr Thr Val Asp Phe Pro Ala Val  
 260 265 270  
 Pro Gly Ala Leu Gly Glu Asn Gly Asn Gly Gly Met Val Thr Gly Cys  
 275 280 285  
 Ala Glu Thr Pro Gly Cys Val Ala Tyr Ile Gly Ile Ser Phe Leu Asp  
 290 295 300  
 Gln Ala Ser Gln Arg Gly Leu Gly Glu Ala Gln Leu Gly Asn Ser Ser  
 305 310 315 320  
 Gly Asn Phe Leu Leu Pro Asp Ala Gln Ser Ile Gln Ala Ala Ala  
 325 330 335  
 Gly Phe Ala Ser Lys Thr Pro Ala Asn Gln Ala Ile Ser Met Ile Asp  
 340 345 350  
 Gly Pro Ala Pro Asp Gly Tyr Pro Ile Ile Asn Tyr Glu Tyr Ala Ile  
 355 360 365  
 Val Asn Asn Arg Gln Lys Asp Ala Ala Thr Ala Gln Thr Leu Gln Ala  
 370 375 380  
 Phe Leu His Trp Ala Ile Thr Asp Gly Asn Lys Ala Ser Phe Leu Asp  
 385 390 395 400  
 Gln Val His Phe Gln Pro Leu Pro Pro Ala Val Val Lys Leu Ser Asp  
 405 410 415  
 Ala Leu Ile Ala Thr Ile Ser Ser Ala Glu Met Lys Thr Asp Ala Ala  
 420 425 430  
 Thr Leu Ala Gln Glu Ala Gly Asn Phe Gln Arg Ile Ser Gly Asp Leu  
 435 440 445  
 Lys Thr Gln Ile Asp Gln Val Glu Ser Thr Ala Gly Ser Leu Gln Gly  
 450 455 460  
 Gln Trp Arg Gly Ala Ala Gly Thr Ala Ala Gln Ala Ala Val Val Arg  
 465 470 475 480

Fj, 5 H

Phe	Gln	Glu	Ala	Ala	Asn	Lys	Gln	Glu	Leu	Asp	Glu	Ile	Ser		
485													495		
Thr	Asn	Ile	Arg	Gln	Ala	Gly	Val	Gln	Tyr	Ser	Arg	Ala	Asp	Glu	Glu
500														510	
Gln	Gln	Gln	Ala	Leu	Ser	Ser	Gln	Met	Gly	Phe	Val	Pro	Thr	Thr	Ala
515															525
Ala	Ser	Pro	Pro	Ser	Thr	Ala	Ala	Ala	Pro	Pro	Ala	Pro	Ala	Thr	Pro
530															540
Val	Ala	Pro	Pro	Pro	Pro	Ala	Ala	Ala	Asn	Thr	Pro	Asn	Ala	Gln	Pro
545															555
Gly	Asp	Pro	Asn	Ala	Ala	Pro	Pro	Pro	Ala	Asp	Pro	Asn	Ala	Pro	Pro
565															575
Pro	Pro	Val	Ile	Ala	Pro	Asn	Ala	Pro	Gln	Pro	Val	Arg	Ile	Asp	Asn
580															590
Pro	Val	Gly	Gly	Phe	Ser	Phe	Ala	Leu	Pro	Ala	Gly	Trp	Val	Glu	Ser
595															605
Asp	Ala	Ala	His	Phe	Asp	Tyr	Gly	Ser	Ala	Leu	Leu	Ser	Lys	Thr	Thr
610															620
Gly	Asp	Pro	Pro	Phe	Pro	Gly	Gln	Pro	Pro	Val	Ala	Asn	Asp	Thr	
625															640
Arg	Ile	Val	Leu	Gly	Arg	Leu	Asp	Gln	Lys	Leu	Tyr	Ala	Ser	Ala	Glu
645															655
Ala	Thr	Asp	Ser	Lys	Ala	Ala	Ala	Arg	Leu	Gly	Ser	Asp	Met	Gly	Glu
660															670
Phe	Tyr	Met	Pro	Tyr	Pro	Gly	Thr	Arg	Ile	Asn	Gln	Glu	Thr	Val	Ser
675															685
Leu	Asp	Ala	Asn	Gly	Val	Ser	Gly	Ser	Ala	Ser	Tyr	Tyr	Glu	Val	Lys
690															700
Phe	Ser	Asp	Pro	Ser	Lys	Pro	Asn	Gly	Gln	Ile	Trp	Thr	Gly	Val	Ile
705															720
Gly	Ser	Pro	Ala	Ala	Asn	Ala	Pro	Asp	Ala	Gly	Pro	Pro	Gln	Arg	Trp
725															735

Phe Val Val Trp Leu Gly Thr Ala Asn Asn Pro Val Asp Lys Gly Ala  
740 745 750

Ala Lys Ala Leu Ala Glu Ser Ile Arg Pro Leu Val Ala Pro Pro Pro  
755 760 765

Ala Pro Ala Pro Ala Pro Ala Glu Pro Ala Pro Ala Pro Ala Pro Ala  
770 775 780

Gly Glu Val Ala Pro Thr Pro Thr Thr Pro Thr Pro Gln Arg Thr Leu  
785 790 795 800

Pro Ala

Fig. 5J

DPV  
INTERFERON- $\gamma$  VACCINE (LIVE) 1000 U/Ml (100 U/0.1 ml) 100 U/0.1 ml  
REACTOPHENYL (TETRAZOLE DERIVATIVE) 1000 U/Ml (100 U/0.1 ml) 100 U/0.1 ml  
CETEGOL (SODIUM LAURYL SULFATE) 1000 U/Ml (100 U/0.1 ml) 100 U/0.1 ml

168

Fig. 3.

Fig. 73

6.8A

Fig. 83

Fig. 9A.

.....  
CAAGCCCCAAAGGUAGCTGA  
CTTCGGCTTCCTTGACTT  
.....

A S P K S B

Fig. 9B







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Fig. 123

Fig. 13A

Fig. 133 B

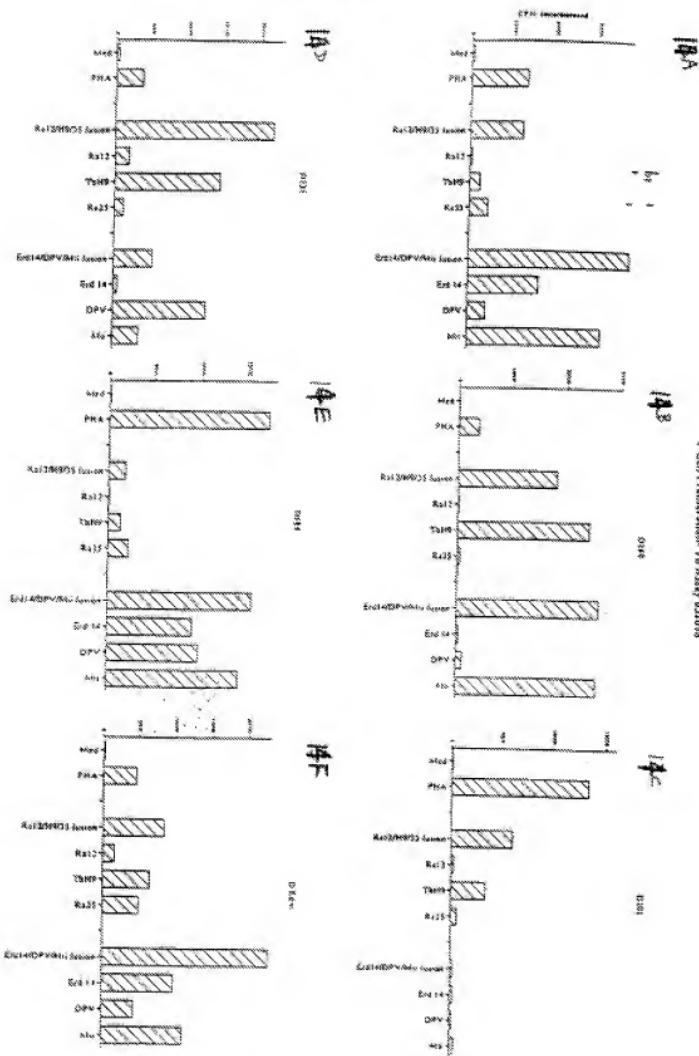


Fig. 14A - 14F

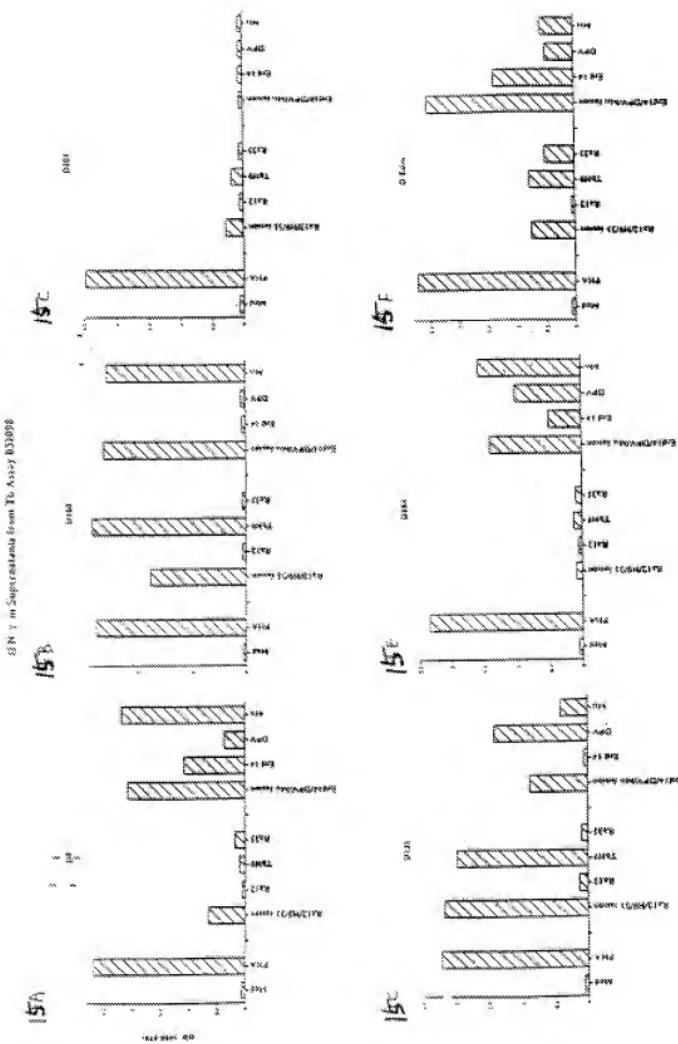


Fig. 15A-15F

## Antigen formulated in SBAS1c

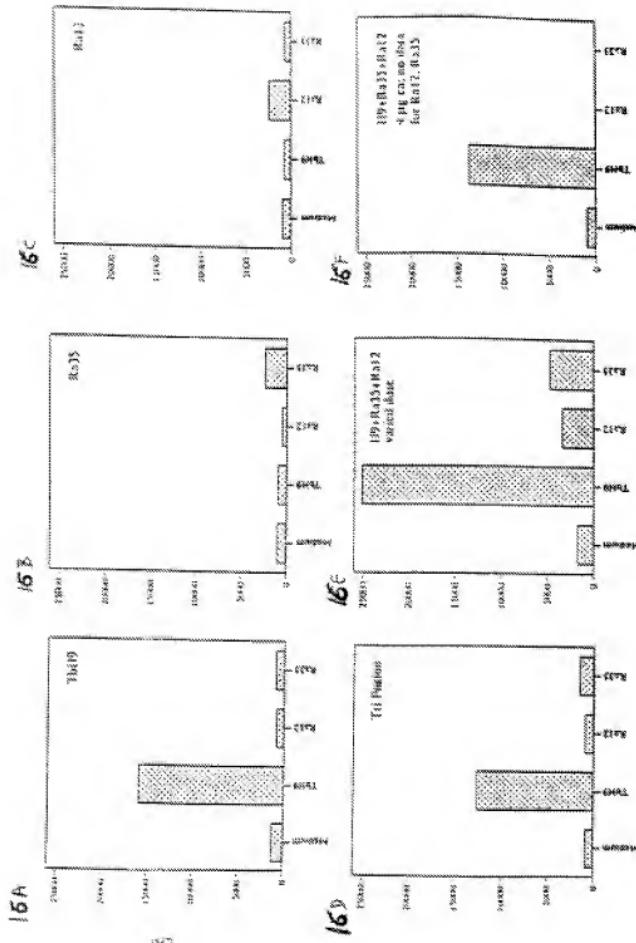
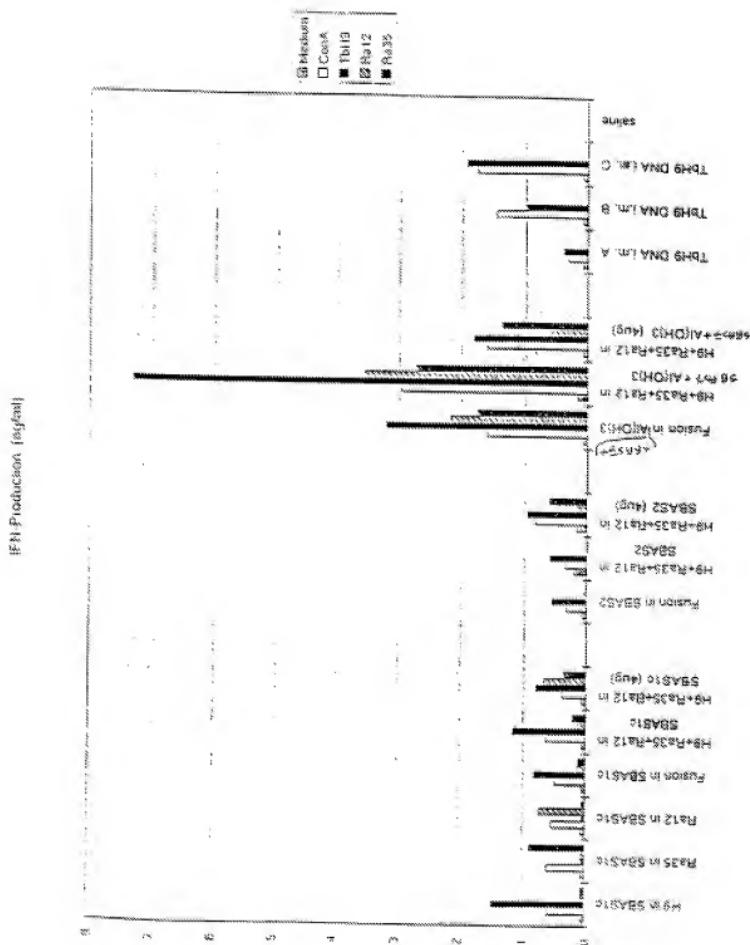


Fig. 16A - 16F



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B. 4 Production [μg/ml]

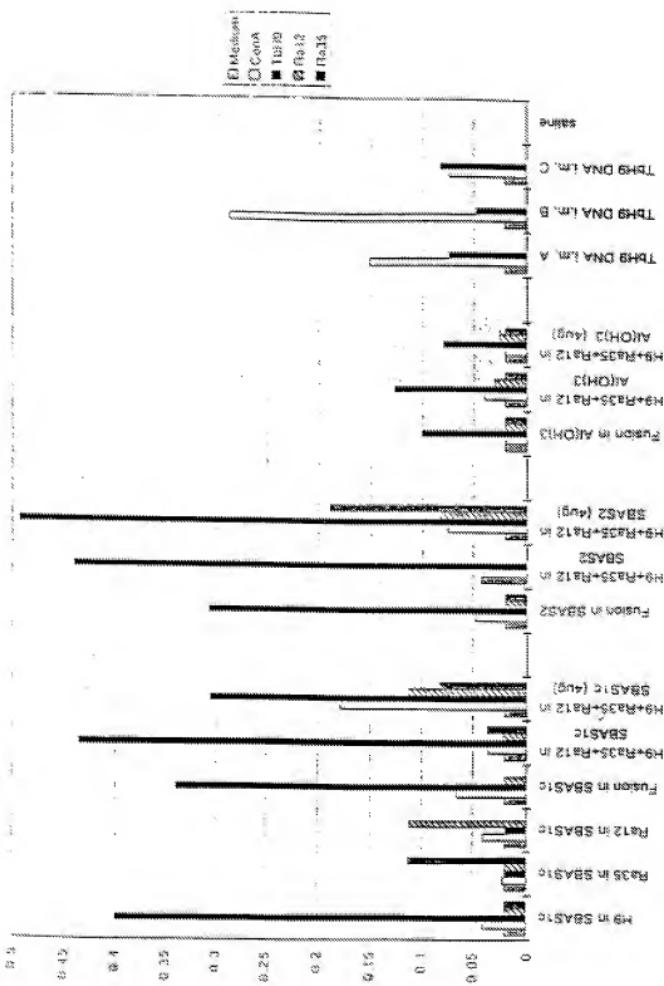


Fig. 8

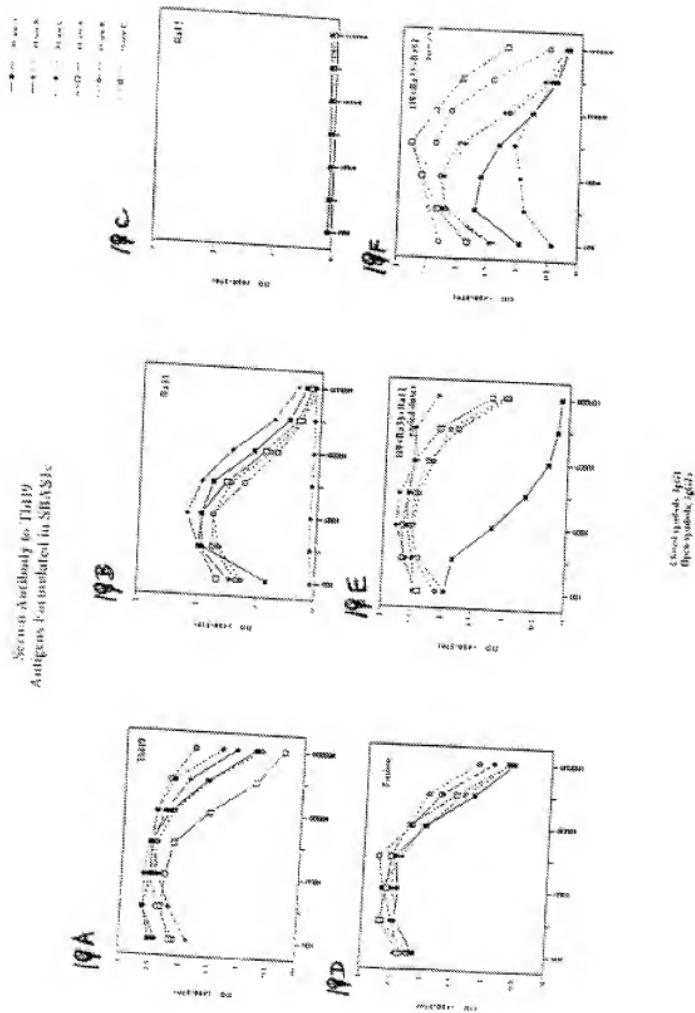
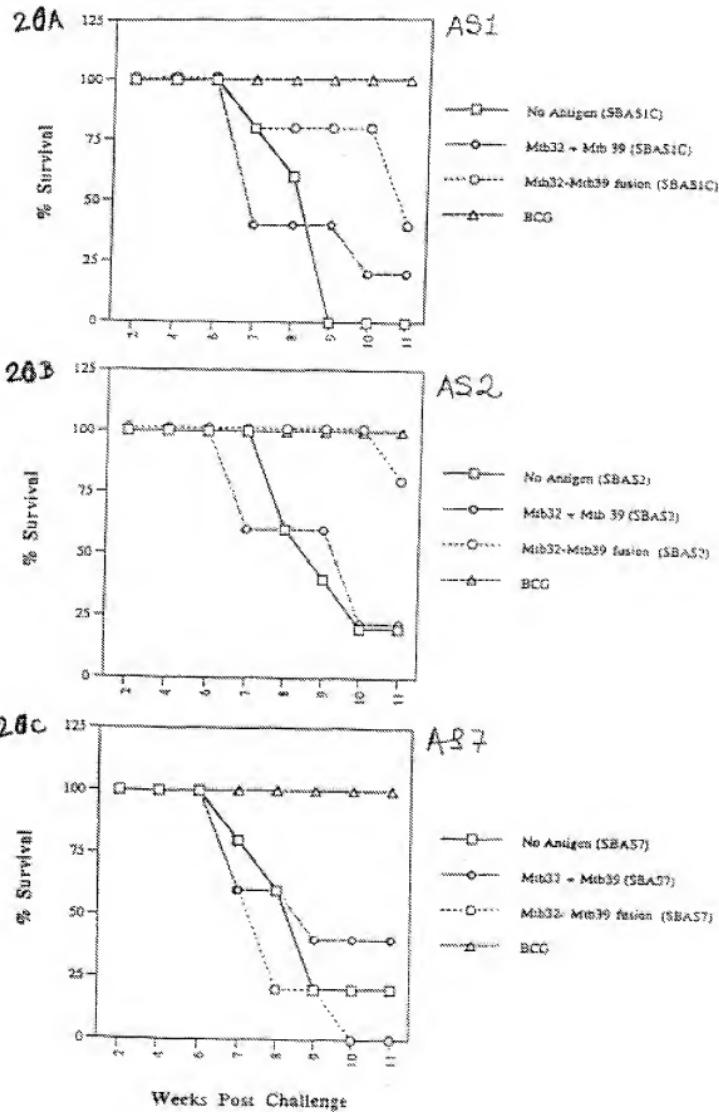


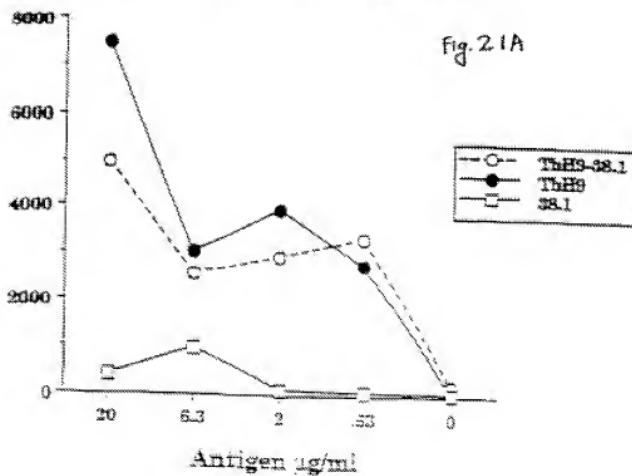
Fig. 19A - 19F

Fig. 20A - 20C



## D131 T Cell Proliferation

CPM Incorporated



## D131 IFNg

O.D. 450-570

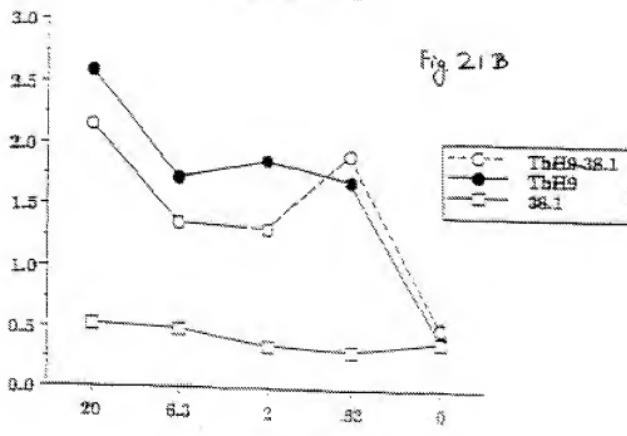
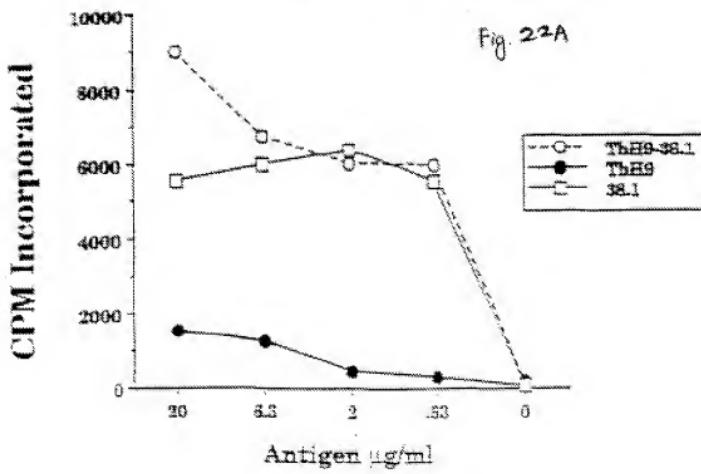


Fig. 21A + 21B

### D184 T Cell Proliferation



### D184 IFNg

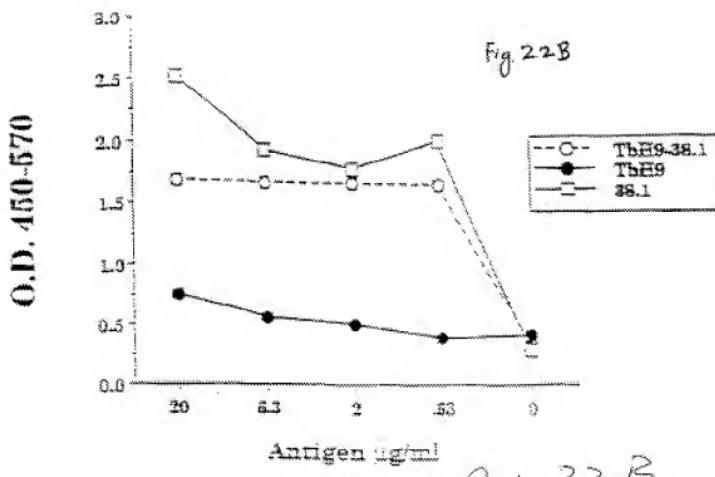
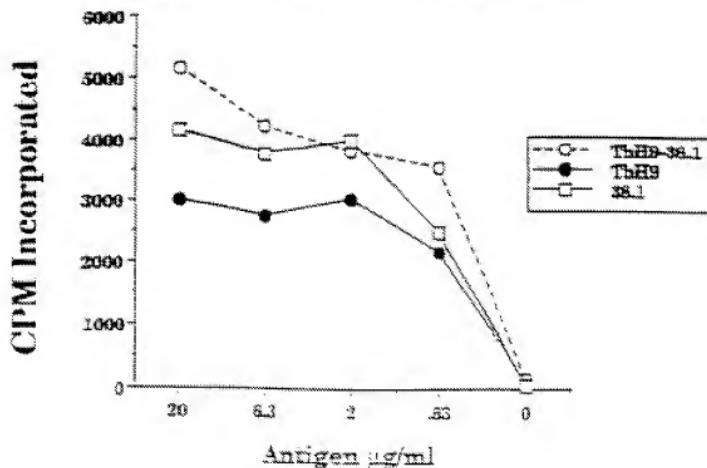


Fig. 22A + 22B

Fig. 23A

## D201 T Cell Proliferation



## D201 IFNg

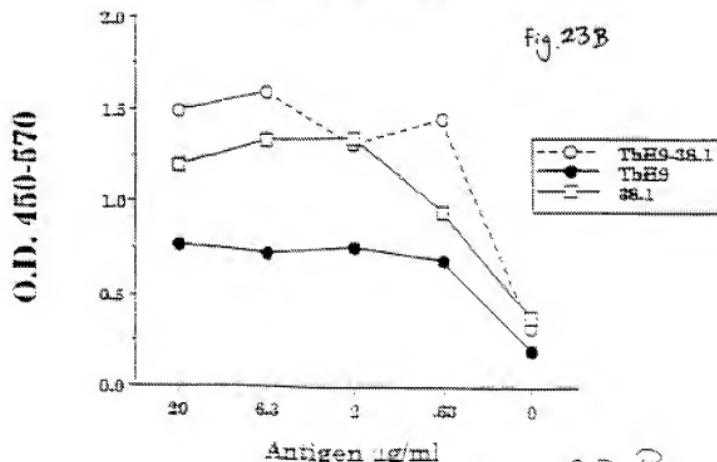


Fig. 23 A + 23 B